#### BEFORE THE

INDEPENDENT CITIZENS' OVERSIGHT COMMITTEE

AND THE

APPLICATION REVIEW SUBCOMMITTEE

TO THE

CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE

ORGANIZED PURSUANT TO THE

CALIFORNIA STEM CELL RESEARCH AND CURES ACT

**EMERGENCY MEETING** 

LOCATION: VIA ZOOM

DATE: MAY 15, 2020

11 A.M.

REPORTER: BETH C. DRAIN, CA CSR

CSR. NO. 7152

FILE NO.: 2020-09

#### INDEX

ITEM DESCRIPTION PAGE NO. **OPEN SESSION:** 3 CALL TO ORDER. 3 ROLL CALL. **ACTION ITEMS:** 12 CONSIDERATION OF APPLICATIONS SUBMITTED IN RESPONSE TO SPECIAL CALL FOR COVID-19 PROJECTS. 4 CONSIDERATION OF APPLICATIONS SUBMITTED IN RESPONSE TO CLINICAL TRIAL STAGE PROJECTS FOR SICKLE CELL DISEASE (CLIN 1 AND 2.). **CLOSED SESSION** NONE DISCUSSION OF CONFIDENTIAL INTELLECTUAL PROPERTY OR WORK PRODUCT, PREPUBLICATION DATA, FINANCIAL INFORMATION, CONFIDENTIAL SCIENTIFIC RESEARCH OR DATA, AND OTHER PROPRIETARY INFORMATION RELATING TO APPLICATIONS SUBMITTED IN RESPONSE TO AGENDA ITEMS "3 AND 4" ABOVE. (HEALTH & SAFETY CODE 125290.30(F) (3) (B) AND (C)).

#### **DISCUSSION ITEMS:**

PUBLIC COMMENT. NONE ADJOURNMENT. 44

	<u> </u>
1	MAY 15, 2020; 11:00 A.M.
2	CHAIRMAN THOMAS: OKAY. THANK YOU,
3	EVERYBODY. LIKE TO CALL THE MEETING TO ORDER FOR
4	THE MEETING OF THE BOARD AND APPLICATION REVIEW
5	SUBCOMMITTEE FOR MAY 15TH. HOPE EVERYBODY IS
6	CONTINUING TO STAY SAFE AND HEALTHY WITH THEIR
7	FAMILIES. MARIA, WILL YOU PLEASE CALL THE ROLL.
8	MS. BONNEVILLE: ANNE-MARIE DULIEGE.
9	DR. DULIEGE: YES, PRESENT.
10	MS. BONNEVILLE: YSABEL DURON. DAVID
11	HIGGINS.
12	DR. HIGGINS: HERE.
13	MS. BONNEVILLE: DAVE MARTIN.
14	DR. MARTIN: HERE.
15	MS. BONNEVILLE: LAUREN MILLER.
16	MS. MILLER: HERE.
17	MS. BONNEVILLE: ADRIANA PADILLA. JOE
18	PANETTA.
19	MR. PANETTA: HERE.
20	MS. BONNEVILLE: FRANCISCO PRIETO. ROBERT
21	QUINT.
22	DR. QUINT: HERE.
23	MS. BONNEVILLE: AL ROWLETT.
24	MR. ROWLETT: HERE.
25	MS. BONNEVILLE: JEFF SHEEHY.
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	DETH G. DIMIN, GA GSK NO. 7 132
1	MR. SHEEHY: HERE.
2	MS. BONNEVILLE: OS STEWARD. JONATHAN
3	THOMAS.
4	CHAIRMAN THOMAS: HERE.
5	MS. BONNEVILLE: ART TORRES.
6	MR. TORRES: HERE.
7	MS. BONNEVILLE: DIANE WINOKUR.
8	MS. WINOKUR: YES.
9	MS. BONNEVILLE: WE HAVE A QUORUM, AND I'M
10	GOING TO MUTE MYSELF AND TRY AND GET OS AND
11	FRANCISCO ON.
12	CHAIRMAN THOMAS: SO TODAY IS THE SECOND
13	IN OUR SERIES OF MEETINGS TO CONSIDER COVID
14	APPLICATIONS FROM THIS WEEK'S GWG REVIEW. IN
15	ADDITION, WE HAVE A SICKLE CELL PROJECT ON THE
16	AGENDA FOR CONSIDERATION. AND AT THIS POINT WOULD
17	LIKE TO TURN THE MEETING OVER TO MR. SHEEHY.
18	MR. SHEEHY: THANK YOU, CHAIRMAN THOMAS.
19	I THINK, DR. SAMBRANO, ARE YOU GOING TO
20	TAKE US THROUGH THIS? WE'RE GOING TO START WITH THE
21	SICKLE CELL ONE TODAY, AREN'T WE?
22	DR. SAMBRANO: YES, THAT'S CORRECT.
23	CHAIRMAN THOMAS: GREAT. YOU HAVE SLIDES?
24	DR. SAMBRANO: YES. OKAY. THANK YOU.
25	SO GOOD MORNING, EVERYONE. WE ARE GOING
	4

1	TO TALK ABOUT FIRST THE SICKLE CELL DISEASE PROGRAM
2	AND THE ONE APPLICATION THAT IS BEING CONSIDERED.
3	SO IF I COULD HAVE THE NEXT SLIDE, DOUG.
4	THE SICKLE CELL PROGRAM IS ONE, AS YOU
5	KNOW, THAT IS IN COLLABORATION WITH THE NHLBI TO,
6	WHERE POSSIBLE, CO-FUND PROGRAMS IN THE CLINICAL
7	ARENA. SO THAT'S THE LATE STAGE PRECLINICAL
8	PROJECTS OR CLINICAL TRIALS.
9	IN THIS PARTICULAR CASE WE HAVE AN
10	APPLICATION THAT IS NOT BEING CO-FUNDED. THIS WOULD
11	BE AN APPLICATION THAT WAS NOT DEEMED ELIGIBLE FOR
12	THE NHLBI FUNDING, BUT IS FOR CIRM. SO THIS WOULD
13	BE A CIRM-ONLY FUNDING.
14	NEXT SLIDE PLEASE. SO THE SCORING AND I
15	WANT TO JUST EMPHASIZE BECAUSE WE ARE USING TWO
16	DIFFERENT SCORING METHODS THAT WE'RE GOING TO TALK
17	ABOUT TODAY. SO FOR THE SICKLE CELL PROGRAM AND FOR
18	OUR TRADITIONAL CLINICAL PROGRAM, WE USE A SCORING
19	SCHEME OF 1, 2, AND 3. SO A SCORE OF 1 MEANING IT
20	HAS EXCEPTIONAL MERIT AND WARRANTS FUNDING; A SCORE
21	OF 2 MEANING IT NEEDS IMPROVEMENT, AND USUALLY THOSE
22	GET REVISED AND COME BACK; AND A SCORE OF 3 WHERE
23	IT'S SUFFICIENTLY FLAWED THAT WE WOULDN'T WANT THAT
23 24	IT'S SUFFICIENTLY FLAWED THAT WE WOULDN'T WANT THAT  TO COME BACK FOR SIX MONTHS.

1	UPDATE ON THE BUDGET STATUS FOR THE SICKLE CELL
2	DISEASE PROGRAM. SO THERE WAS AN ALLOCATION OF 30
3	MILLION THAT WAS CREATED AND APPROVED BY THE BOARD
4	FOR THE PROGRAM. THE AMOUNT THAT IS REQUESTED FOR
5	TODAY FOR THE ONE APPLICATION IS TWO MILLION. WE
6	HAVE APPROVED AWARDS THAT HAVE USED UP 2.2 MILLION
7	OUT OF THE \$30 MILLION BUCKET. AND SO IF THIS
8	APPLICATION IS APPROVED TODAY, THAT WOULD LEAVE US
9	WITH 25.8 MILLION. I DO WANT TO NOTE THAT OUT OF
10	THIS 30 MILLION ALLOCATION, I'M SURE YOU ALL
11	REMEMBER WE DID BORROW 4.2 MILLION FOR THE COVID-19
12	PROGRAM THAT'S NOT REFLECTED IN THIS CHART, BUT I
13	JUST WANT TO MAKE IT CLEAR THAT THAT IS THE CASE.
14	WE ARE REPLENISHING THAT AMOUNT WITH RECOVERED FUNDS
15	AS WE GET THEM.
16	NEXT SLIDE PLEASE. OKAY. SO THE PROJECT
17	THAT WE ARE TALKING ABOUT TODAY IS A THERAPY THAT
18	USES EXPANDED CORD BLOOD HEMATOPOIETIC STEM CELLS TO
19	TREAT SEVERE SICKLE CELL DISEASE. AND THE GOAL OF
20	THIS PROJECT IS TO COMPLETE A PHASE 1 CLINICAL
21	TRIAL, AND THE AMOUNT REQUESTED IS TWO MILLION, AND
22	THE APPLICANT IS PROVIDING A CO-FUNDING AMOUNT OF
23	ABOUT 860,000.
24	NEXT SLIDE PLEASE. SO AS JUST BACKGROUND
25	INFORMATION ON SICKLE CELL DISEASE AND THE IMPACT OF

1	THIS THERAPY, AS WE KNOW, SICKLE CELL DISEASE IS ONE
2	THAT HAS A SEVERE IMPACT ON PATIENTS. THERE ARE
3	APPROXIMATELY 100,000 AMERICANS THAT THIS DISEASE
4	AFFECTS. IT IS PARTICULARLY COMMON IN THOSE WITH
5	SUB-SAHARAN AFRICAN ANCESTRY, AND IT AFFECTS ONE IN
6	365 AFRICAN-AMERICAN BIRTHS. GLOBALLY THERE ARE
7	OVER 300,000 BABIES WHO ARE BORN WITH SICKLE CELL
8	DISEASE EVERY YEAR.
9	THE VALUE PROPOSITION OF THE THERAPY COMES
10	AROUND IN THE FOLLOWING WAY. SO THE ONLY CURRENT
11	CURE IS ALLOGENEIC HEMATOPOIETIC STEM CELL
12	TRANSPLANTATION. IT COMES WITH SOME RISK, BUT IT IS
13	CURATIVE POTENTIALLY, BUT DONOR AVAILABILITY IS VERY
14	LIMITED.
15	SO THE PROPOSED THERAPEUTIC APPROACH WOULD
16	BROADEN THE DONOR AVAILABILITY FOR PATIENTS SEEKING
17	SUCH TRANSPLANTATION. SO THAT IS WHERE THE VALUE
18	WOULD COME IN.
19	WHY IS THIS A STEM CELL PROJECT? THIS
20	THERAPY INCLUDES CORD BLOOD-DERIVED HEMATOPOIETIC
21	STEM CELLS.
22	NEXT SLIDE PLEASE. SO THIS IS JUST A
23	BIG-PICTURE OVERVIEW OF THE RELATED PROJECTS THAT
24	EXIST IN OUR PORTFOLIO. SO AT THE VERY TOP IS THE
25	CURRENT APPLICATION AND HOW THAT WOULD FIT IN.

1	THERE ARE FOUR OTHER ACTIVE AWARDS THAT ARE IN OUR
2	CLINICAL PORTFOLIO, TWO THAT ARE AT THE LATE STAGE
3	PRECLINICAL, AND THEN TWO CLINICAL TRIAL PROJECTS.
4	MOST OF THESE ARE FOCUSED ON AUTOLOGOUS APPROACHES,
5	GENE CORRECTION, AND THEN THERE'S ONE THAT'S FOCUSED
6	ON ACHIEVING IMMUNE TOLERANCE THROUGH MIXED
7	CHIMERISM.
8	AND SO THE CURRENT APPLICATION THAT WE ARE
9	CONSIDERING IS UNIQUE AMONG THESE IN THAT IT IS AN
10	ALLOGENEIC APPROACH THAT USES CORD BLOOD AND EXPANDS
11	IT IN ORDER TO PROVIDE A TREATMENT.
12	NEXT SLIDE PLEASE. THIS APPLICANT HAS NOT
13	RECEIVED CIRM FUNDING PREVIOUSLY. SO NOTHING MUCH
14	TO SAY ON THAT FRONT.
15	AND SO THE LAST SLIDE ON THIS
16	APPLICATION NEXT SLIDE PLEASE, DOUG IS THE
17	RECOMMENDATION AND SCORING FROM THE GWG. SO THIS
18	RECEIVED A SCORE OF 1, MEANING EXCEPTIONAL MERIT AND
19	WARRANTING FUNDING. AND SO THIS IS A UNANIMOUS VOTE
20	BY THE 15 SCIENTIFIC MEMBERS OF THE GWG. THE CIRM
21	TEAM ALSO RECOMMENDS AND CONCURS WITH THE GWG IN
22	AWARDING THE APPLICANT TWO MILLION.
23	MR. SHEEHY.
24	MR. SHEEHY: THANK YOU, DR. SAMBRANO.
25	COULD I GET A MOTION TO EITHER ACCEPT THE
	8

1	CIRM TEAM RECOMMENDATION AND FUND THIS PROJECT OR TO
2	REJECT THE CIRM TEAM RECOMMENDATION AND NOT TO FUND
3	THIS PROJECT?
4	DR. HIGGINS: THIS IS DAVID IN SAN DIEGO.
5	I MOVE TO DO JUST THAT.
6	CHAIRMAN THOMAS: TO ACCEPT. GREAT. SO
7	DO I HAVE A SECOND?
8	MR. TORRES: YES, SECOND.
9	MR. SHEEHY: OKAY. SO DAVID HIGGINS HAD
10	MOTIONED TO ACCEPT THE RECOMMENDATION, SECONDED BY
11	SENATOR TORRES. ANY DISCUSSION AMONGST MEMBERS OF
12	THE BOARD, QUESTIONS, ET CETERA?
13	DR. DULIEGE: MAY I ASK A QUESTION? GIL,
14	CAN YOU PLEASE CLARIFY WHAT THIS APPROACH WOULD ADD
15	SPECIFICALLY TO THE CURRENTLY APPROVED APPROACH OF
16	HEMATOPOIETIC STEM CELLS, IF I'M CORRECT, WHICH IS
17	ALREADY APPROVED?
18	DR. SAMBRANO: SO THIS IS CORD BLOOD
19	DERIVED. SO THERE'S ADVANTAGES TO USING CORD BLOOD
20	THAT INCLUDE MORE TOLERANCE FOR HLA MOLECULE
21	MISMATCHES. THERE'S LOWER INCIDENCE OF GVHD. ONE
22	OF THE DIFFICULTIES WITH CORD BLOOD, HOWEVER, IS
23	THAT OFTEN THERE ISN'T SUFFICIENT IN A SINGLE UNIT
24	TO TREAT PATIENTS. AND SO WHAT THIS BRINGS FORWARD
25	IS THE ABILITY TO EXPAND CORD BLOOD UNITS.

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1	SO THERE'S A SMALL MOLECULE THAT THE TEAM
2	HAS IDENTIFIED AND USES TO EXPAND THE CORD BLOOD IN
3	ORDER TO CREATE SUFFICIENT MATERIAL FOR THE
4	TRANSPLANT. AND SO BY VIRTUE OF THAT, IT WOULD
5	ALLOW THOSE THAT MIGHT NOT OTHERWISE BE ABLE TO
6	RECEIVE ONE EITHER BECAUSE THERE IS NO GOOD MATCH TO
7	ACTUALLY BE ABLE TO PURSUE THE TRANSPLANT.
8	DR. DULIEGE: THANK YOU. VERY USEFUL.
9	DR. MARTIN: THIS IS DAVE MARTIN. IS IT
10	FAIR TO ASK WHY IT'S NOT ELIGIBLE FOR THE
11	CO-FUNDING?
12	DR. SAMBRANO: BECAUSE I THINK NHLBI
13	GENERALLY IS FOCUSED ON GENE THERAPY APPROACHES, AND
14	THEY FELT THIS ONE DID NOT MEET THEIR BAR FOR A GENE
15	THERAPY APPROACH.
16	DR. MARTIN: THANK YOU.
17	MR. SHEEHY: ADDITIONAL QUESTIONS OR
18	COMMENTS? IS THERE ANY PUBLIC COMMENT FOR THIS
19	APPLICATION? IF NOT, MS. BONNEVILLE, COULD YOU
20	PLEASE CALL THE ROLL.
21	MS. BONNEVILLE: ANNE-MARIE DULIEGE.
22	DR. DULIEGE: YES.
23	MS. BONNEVILLE: DAVID HIGGINS.
24	DR. HIGGINS: YES.
25	MS. BONNEVILLE: DAVE MARTIN.
	10

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	DETH C. DRAIN, CA CSR NO. / 152
1	DR. MARTIN: YES.
2	MS. BONNEVILLE: LAUREN MILLER.
3	MS. MILLER: YES.
4	MS. BONNEVILLE: ADRIANA PADILLA. JOE
5	PANETTA.
6	MR. PANETTA: YES.
7	MS. BONNEVILLE: FRANCISCO PRIETO. ROBERT
8	QUINT. DR. QUINT?
9	DR. QUINT: YES.
10	MS. BONNEVILLE: AL ROWLETT.
11	MR. ROWLETT: YES.
12	MS. BONNEVILLE: JEFF SHEEHY.
13	MR. SHEEHY: YES.
14	MS. BONNEVILLE: OS STEWARD. YES. HE'S
15	GIVING ME THE THUMBS UP. I SEE IT.
16	JONATHAN THOMAS.
17	CHAIRMAN THOMAS: YES.
18	MS. BONNEVILLE: ART TORRES.
19	MR. TORRES: AYE.
20	MS. BONNEVILLE: DIANE WINOKUR.
21	MS. WINOKUR: YES.
22	MS. BONNEVILLE: THE MOTION CARRIES.
23	MR. TORRES: WHAT'S OUR TOTAL?
24	MS. BONNEVILLE: TWELVE.
25	MR. TORRES: THANK YOU.
	11
	11

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1	MR. SHEEHY: THANK YOU. DR. SAMBRANO,
2	WILL YOU BE TAKING US THROUGH THE COVID
3	APPLICATIONS?
4	DR. SAMBRANO: YES.
5	MS. BONNEVILLE: REALLY QUICKLY, I WANTED
6	TO CONFIRM THAT DR. MELMED IS ON THE LINE, I
7	BELIEVE. HOW ABOUT LINDA MALKAS?
8	DR. MELMED: YES, I'M ON.
9	MS. BONNEVILLE: THANK YOU. AND I JUST
10	WANTED TO NOTE THE OTHER BOARD MEMBERS THAT HAVE
11	JOINED. THANK YOU.
12	MR. SHEEHY: THANK YOU. DR. SAMBRANO.
13	DR. SAMBRANO: THANK YOU. NEXT SLIDE
14	PLEASE, DOUG.
15	OKAY. SO JUST A QUICK REMINDER OF THE
16	COVID-19 PROGRAM. IT IS ONE THAT WE APPROVED
17	RECENTLY WITH A \$5 MILLION ALLOCATION, AND IT
18	ACCEPTS PROJECTS THAT SPAN FROM DISCOVERY THROUGH
19	CLINICAL TRIALS. NEXT SLIDE PLEASE.
20	AND SO THIS NEXT TABLE JUST SHOWS YOU THE
21	MAXIMUM AWARD AMOUNTS FROM 150,000 FOR DISCOVERY
22	PROJECTS UP TO \$750,000 FOR CLINICAL TRIAL PROJECTS.
23	THE AWARD DURATION IS RELATIVELY SHORT, UP TO A YEAR
24	FOR ALL EXCEPT THE CLINICAL TRIAL WHICH ALLOWS UP TO
25	TWO YEARS FOR THE PROGRAM.

1	NEXT SLIDE PLEASE. SO DESPITE THOSE AWARD
2	DURATIONS AND AWARD AMOUNT LIMITATIONS, WE DO AND
3	HAVE SET A PRETTY HIGH BAR FOR A LOT OF THESE
4	PROJECTS. THERE WAS A CLEAR DELIVERABLE THAT WAS
5	ESTABLISHED FOR EACH OF THESE TYPES OF PROJECTS
6	WITHIN SIX MONTHS OF THE PROJECT INITIATION. SO FOR
7	CLINICAL TRIALS, FOR EXAMPLE, WE EXPECT THAT WITHIN
8	SIX MONTHS SUCH PROJECTS WOULD INITIATE ENROLLMENT
9	AND DATA COLLECTION. FOR THE DISC2 OR DISCOVERY
10	PROJECTS, THAT THEY HAVE DATA FOR A VIABLE CANDIDATE
11	THAT COULD PROGRESS QUICKLY TO THE CLINIC.
12	AND SO FOR TODAY WE ARE ONLY CONSIDERING
13	DISC2 AND CLIN2 PROJECTS. THERE ARE NO CLIN1 OR
14	TRAN PROJECTS THAT ARE IN THE POOL.
15	NEXT SLIDE PLEASE. SO THE RECOMMENDATIONS
16	FROM THE GWG, WE HAD 16 APPLICATIONS, I BELIEVE,
17	THAT WERE SUBMITTED, 12 THAT WERE ELIGIBLE AND WERE
18	REVIEWED. AND SO OUT OF THOSE THERE ARE TWO THAT
19	ARE RECOMMENDED BY THE GWG. BOTH OF THOSE ARE
20	DISCOVERY APPLICATIONS, AND SO THE TOTAL AMOUNT
21	REQUESTED FOR THOSE TWO WOULD BE 300,000. AND THE
22	FUNDS AVAILABLE ARE 3.9 MILLION.
23	NEXT SLIDE PLEASE. AND SO JUST BRIEFLY,
24	THE TWO APPLICATIONS THAT ARE RECOMMENDED THAT ARE
25	DISCOVERY ARE NUMBERS 11811, WHICH RECEIVED A SCORE

1	OF 90. AND SO THIS APPLICATION IS ENTITLED
2	"REPURPOSING AMINOADAMANTANE NITRATE COMPOUNDS TO
3	INHIBIT SARS COV2 VIRAL ACTIVITY AND TO PROTECT THE
4	BRAIN FROM VIRAL-RELATED DAMAGE."
5	SO THIS IS A PROPOSAL THAT INTENDS TO DO A
6	SCREEN OF SEVERAL COMPOUNDS TO IDENTIFY THOSE THAT
7	HAVE THE POTENTIAL TO PROTECT NEURONS FROM VIRAL
8	DAMAGE AS WELL AS TO INHIBIT THE ACTIVITY OF THE
9	SARS COV2 VIRUS.
10	THE SECOND PROJECT IS ONE THAT RECEIVED A
11	SCORE OF 85, AND IT IS ENTITLED "DEVELOPMENT OF A
12	NOVEL PIKFYVE KINASE INHIBITOR FOR THE TREATMENT OF
13	COVID-19." THE GOAL OF THIS PROJECT IS TO DETERMINE
14	IF A NOVEL PIFYVE KINASE INHIBITOR CAN PREVENT SARS
15	COV2 INFECTION OF TYPE 2 ALVEOLAR LUNG CELLS. AND
16	SO THAT'S WHAT THIS PROJECT WILL PURSUE.
17	AND, MR. SHEEHY, DOUG IS GOING TO PUT UP
18	THE DISPLAY OF THE SPREADSHEET THAT SHOWS ALL THE
19	OTHER APPLICATIONS AS WELL, WHICH MIGHT BE JUST
20	BENEFICIAL TO GIVE EVERYBODY THE OVERVIEW OF ALL THE
21	APPLICATIONS. ALL MEMBERS SHOULD ALSO HAVE A COPY
22	OF THAT SPREADSHEET AVAILABLE IN THE MATERIALS THAT
23	WERE PROVIDED. SO MR. SHEEHY.
24	MR. SHEEHY: THANK YOU, DR. SAMBRANO.
25	SO THE WAY IN WHICH WE'LL PROCEED IS HOW
	1.4

1	WE TYPICALLY PROCEED WITH THESE LARGE GROUPS OF
2	GRANTS OF APPLICATIONS. SO FIRST I'LL TAKE A
3	MOTION TO MOVE ANY APPLICATION FROM THE UNFUNDABLE
4	SCORE RANGE INTO THE FUNDABLE SCORE RANGE. THEN
5	I'LL TAKE A MOTION TO MOVE ANYTHING NOT IN THE
6	RECOMMENDED RANGE OUT OF THE RECOMMENDED RANGE, AND
7	THEN WE'LL VOTE ON THE RECOMMENDED AND NOT
8	RECOMMENDED AS A GROUP.
9	SO, FIRST, IS THERE A MOTION TO MOVE ANY
10	APPLICATION FROM THE UNFUNDED RANGE INTO THE
11	FUNDABLE RANGE?
12	CHAIRMAN THOMAS: YES, MR. SHEEHY, I WOULD
13	LIKE TO, IF I MAY, MOVE 11823 FROM THE CURRENT NOT
14	FUNDABLE RANGE.
15	DR. MARTIN: I'LL SECOND THAT.
16	MR. SHEEHY: DR. MARTIN. DO WE
17	HAVE FIRST, MIGHT IT BE HELPFUL TO HAVE DR.
18	SAMBRANO DO A BRIEF REVIEW OF THAT APPLICATION,
19	CHAIRMAN THOMAS?
20	CHAIRMAN THOMAS: YES. THANK YOU, MR.
21	SHEEHY.
22	MR. SHEEHY: SURE.
23	DR. SAMBRANO: OKAY. SO APPLICATION
24	11823, THIS ONE IS ENTITLED "MESENCHYMAL STROMAL
25	CELLS FOR ARDS COVID POSITIVE AND NEGATIVE

1	PATIENTS." AND SO THIS IS A CLINICAL TRIAL PROPOSAL
2	THAT IS INTENDED TO BE AN EXPANSION OF AN EXISTING
3	BROADER TRIAL THAT IS LOOKING AT THESE MSC CELLS AS
4	A TREATMENT FOR ARDS, WHICH IS ACUTE RESPIRATORY
5	DISTRESS SYNDROME.
6	AND SO WITH THE RISE IN THE CRISIS OF
7	COVID-19, THE IDEA IS TO MOBILIZE THIS TRIAL AND
8	ALLOW THE TREATMENT OF COVID-19 PATIENTS AND
9	DETERMINE IF THIS THERAPEUTIC APPROACH MAY ALSO HAVE
10	AN IMPACT ON SUCH PATIENTS.
11	AND SO THIS IS AN APPLICATION THAT
12	RECEIVED A SCORE OF 72. THERE WAS ONE MEMBER
13	THAT SCIENTIFIC MEMBER THAT SCORED IT AT 85 OR
14	ABOVE, 13 MEMBERS THAT SCORED IT BELOW.
15	SO I THINK SOME OF THE REASONS AS TO WHY
16	THIS APPLICATION DID NOT SCORE IN THE FUNDING RANGE,
17	I THINK IT WAS UNCLEAR AND FELT THAT THE PIVOT TO
18	COVID-19 MAY NOT BE ADEQUATE, MEANING THERE WAS THE
19	BELIEF THAT THERE WERE POTENTIALLY ONLY 20 PATIENTS
20	THAT WOULD BE PART OF THIS COVID-19 PROJECT. AND SO
21	THE NUMBER OF PATIENTS WAS ALSO THE RISK THAT NO
22	PATIENTS WITH COVID-19 WOULD END UP BEING ENROLLED
23	THE WAY THE PROPOSAL WAS LAID OUT.
24	SO I THINK THAT WAS A KEY CONCERN FROM
25	REVIEWERS. I THINK THEY FELT THAT THE RATIONALE,

1	THE TEAM, LARGELY MOST OTHER THINGS WERE FINE AND
2	APPROPRIATE, AND I THINK THERE WERE CERTAINLY KUDOS
3	FOR THE TEAM AND THE PI.
4	I THINK THERE WAS ALSO SOME CONCERN THAT
5	THERE IS ANOTHER TRIAL THAT IS USING A COMMERCIALLY
6	PREPARED PRODUCT THAT IS UNDER WAY. AND SO THERE
7	MAY BE SOME COMPETITION THERE. BUT I THINK MUCH OF
8	IT WAS RELATED TO THE NUMBER OF PATIENTS.
9	NOW, SINCE WE PUBLISHED THIS SUMMARY AND
10	PROVIDED IT TO THE APPLICANT, WE DID GET
11	CLARIFICATION REGARDING THE COVID-19 PATIENTS. AND
12	SO IT HAS BEEN MADE CLEAR THAT THIS STUDY WILL
13	INCLUDE THE BROADER 120 PATIENTS THAT ARE PART OF
14	THIS STUDY AND WILL ASSESS ANY COVID-19 PATIENTS
15	ACROSS ALL THE CLINICAL SITES, NOT JUST THE EXPANDED
16	ONE. SO I THINK THAT IS IMPORTANT INFORMATION THAT
17	WAS BROUGHT TO LIGHT.
18	SO, MR. SHEEHY.
19	MR. SHEEHY: THANK YOU, DR. SAMBRANO.
20	FOR DISCUSSION AMONGST BOARD MEMBERS.
21	DR. PRIETO: YES. CAN YOU HEAR ME?
22	MR. SHEEHY: YES, DR. PRIETO.
23	DR. PRIETO: HI.
24	MS. BONNEVILLE: YAY.
25	DR. PRIETO: I WANTED TO RECORD I WAS
	17

	,
1	HAVING SOME TECHNICAL DIFFICULTIES, ALTHOUGH I COULD
2	HEAR YOU AND SEE YOU ALL, AND WANTED TO RECORD MY
3	VOTE AS AYE ON THE PREVIOUS APPLICATION.
4	BUT I WANTED TO ASK DR. SAMBRANO WASN'T
5	THERE ALSO A CONCERN THAT THIS APPLICATION WAS ONLY
6	GOING TO LOOK AT PATIENTS WHO HAD RECOVERED FROM THE
7	ACUTE PHASE OF COVID-19 INFECTION AND LOOKING AT THE
8	PULMONARY SEQUELAE RATHER THAN PERHAPS THE MORE
9	URGENT TREATMENT OF THE ACUTE INFECTION? I THOUGHT
10	I SAW THAT.
11	DR. SAMBRANO: I DON'T RECALL THAT FOR
12	THIS PARTICULAR APPLICATION. I DO RECALL IT FOR
13	ANOTHER ONE, BUT I DON'T
14	DR. PRIETO: OKAY.
15	DR. SAMBRANO: RECALL THAT WAS THE CASE
16	HERE.
17	DR. PRIETO: OKAY. THANK YOU.
18	DR. STEWARD: I'M JUST CURIOUS IF YOU CAN
19	HEAR ME.
20	MS. BONNEVILLE: YES, OS, WE CAN HEAR YOU.
21	DR. STEWARD: FANTASTIC.
22	MS. BONNEVILLE: A DOUBLE WIN. THANK YOU.
23	MR. SHEEHY: DR. STEWARD, DID YOU HAVE A
24	QUESTION OR COMMENT?
25	DR. STEWARD: NO. I'VE BEEN HAVING
	18
	-

1	TROUBLE CONNECTING, AND I WAS JUST DOING A VOICE
2	CHECK. THANK YOU.
3	MR. SHEEHY: OH, GREAT. THANK YOU.
4	IS THERE ANOTHER
5	MR. ROWLETT: AL ROWLETT.
6	MR. SHEEHY: PLEASE.
7	MR. ROWLETT: I WAS THE PATIENT ADVOCATE
8	THAT REVIEWED THIS PARTICULAR PROPOSAL. AND WITHOUT
9	TALKING ABOUT MY SCORE, THE CONCERNS THAT I HAD WERE
10	REFLECTED IN THE COMMENTS GIVEN BY MR. SAMBRANO AND
11	IN THE RESPONSE BY THE PI WHO I BELIEVE IS ON THIS
12	CALL. AND SO I'M FORESHADOWING MY VOTE, BUT I WAS
13	FAVORABLY DISPOSED GIVEN THE RESPONSE. SO THANK
14	YOU, MR. SAMBRANO.
15	MR. SHEEHY: THANK YOU, MR. ROWLETT. IS
16	THERE ANOTHER ADDITIONAL BOARD COMMENT?
17	DR. DULIEGE: I DON'T SEE HOW I CAN RAISE
18	MY HAND OTHER THAN IN FRONT OF THE SCREEN.
19	GIL, GIVEN YOUR CLARIFICATION THAT IN FACT
20	THE ACTUAL SAMPLE SIZE IN THIS CLINICAL TRIAL IS
21	LARGER THAN WHAT THE REVIEWERS APPARENTLY INITIALLY
22	UNDERSTOOD, DO YOU THINK THE RESPONSE ADDRESSED MOST
23	OF THE COMMENTS AND POTENTIAL CONCERNS FROM THE
24	REVIEWERS? AND DO THEY ACTUALLY LIFT THOSE CONCERNS
25	THAT IN FACT THE SCORE SHOULD BE HIGHER?

1	DR. SAMBRANO: SO I HESITATE TO SPEAK FOR
2	THE GRANTS WORKING GROUP AND EXACTLY WHAT THEY WOULD
3	BELIEVE, BUT I CAN TELL YOU THAT THAT WAS A MAJOR
4	CONCERN. I THINK IT WAS UNCLEAR WHETHER ADEQUATE
5	NUMBERS OF PATIENTS WITH COVID-19 WOULD BE AVAILABLE
6	IN ORDER TO GET ANY MEANINGFUL OUTPUT FROM THE
7	TRIAL. BUT IN ADDITION TO LEARNING THAT THE NUMBER
8	OF PATIENTS WHICH WOULD BE DRAWN FROM INCLUDES THE
9	BROADER TRIAL, I THINK IT WAS ALSO MADE CLEAR THAT
10	COVID-19 PATIENTS HAVE ALREADY BEEN ENROLLED. SO I
11	THINK THOSE TWO THINGS WOULD CERTAINLY HAVE MADE A
12	DIFFERENCE IN THE GENERAL VIEW OF THIS APPLICATION.
13	I CANNOT TELL YOU NECESSARILY WHETHER IT WOULD HAVE
14	PUT IT OVER THE FUNDING LINE.
15	DR. DULIEGE: I UNDERSTAND. THANK YOU.
16	MR. SHEEHY: THANK YOU, DR. SAMBRANO.
17	AND JUST, BY THE WAY, IF YOU DO WANT
18	TO IT'S FINE FOR PEOPLE TO CHIME IN; BUT IF YOU
19	DO WANT TO RAISE YOUR HAND, YOU NEED YOU CAN GO
20	TO THE PARTICIPANTS WINDOW, AND THEY DO HAVE THE
21	OPTION THERE, BUT IT'S FINE FOR PEOPLE TO CHIME IN.
22	SO I DON'T WANT TO DISCOURAGE THAT.
23	ARE THERE OTHER COMMENTS OR QUESTIONS FROM
24	BOARD MEMBERS?
25	DR. MARTIN: I WOULD JUST LIKE TO MAKE THE
	20

COMMENT, ALTHOUGH I'VE BEEN SUFFICIENTLY FORTUNATE
NOT TO TAKE CARE OF A COVID ID PATIENT, THE ARDS
SEEMS TO BE THAT AND CRS SEEM TO BE TWO OF THE
MAJOR LIFE-THREATENING PHENOMENON IN THE SEVERELY
AFFECTED AND INTUBATED PATIENTS. AND THIS IS AN
APPLICATION THAT IS SO FAR ALONG IN TERMS OF HAVING
A PRODUCT CANDIDATE IN THE CLINIC THAT HAPPENS TO BE
STEM-CELL BASED AND IS TREATING THE LIFE-THREATENING
ASPECT OF COVID ID 19. SO I THINK THAT THIS ONE,
FOR ME, IS, GIVEN THAT THE CONCERNS OF THE WORKING
GROUP WERE AT LEAST ADDRESSED BY THE PRINCIPAL
INVESTIGATOR, IT SEEMS TO ME ONE THAT IS RIGHT AND
ON TARGET BECAUSE THEY'RE TREATING THE CLINICAL
ASPECT WITH A NOVEL APPROACH WITH A GROUP OF CENTERS
THAT ARE WELL EXPERIENCED IN THIS PARTICULAR
CLINICAL SYNDROME ASSOCIATED WITH THIS PARTICULAR
INFECTION. SO I WOULD CERTAINLY ENCOURAGE US TO
SERIOUSLY CONSIDER SUPPORTING THIS, PARTICULARLY
SINCE IT'S SO FAR ALONG. AND TO GET A CLINICAL
TRIAL FOR THIS PRICE THAT ALREADY HAS MOMENTUM I
THINK IS AN IMPORTANT OPPORTUNITY FOR US.
MR. SHEEHY: THANK YOU, DR. MARTIN.
ADDITIONAL COMMENTS OR QUESTIONS FROM BOARD MEMBERS?
CHAIRMAN THOMAS: MR. SHEEHY, JUST ONE
LAST POINT FOR ME. I WANT TO ECHO WHAT DR. MARTIN

1	SAID, AND I'D ALSO MAKE THE POINT THAT IT'S
2	PIGGYBACKING OFF OF A PREVIOUSLY, THIS IS
3	REITERATION, PREVIOUSLY FUNDED CIRM PROJECT THAT IT
4	ITSELF HAD GONE THROUGH THE GWG PROCESS FAVORABLY.
5	AND SO I THINK THAT HAVING THIS AS AN EXTENSION OF
6	THAT TO FURTHER THE BALL HERE MAKES IMMINENT SENSE.
7	MR. SHEEHY: THANK YOU, CHAIRMAN THOMAS.
8	ADDITIONAL COMMENTS, QUESTIONS? THANK YOU. DO WE
9	HAVE PUBLIC COMMENT?
10	MS. BONNEVILLE: I BELIEVE YEAH, I
11	THINK THERE WILL BE PUBLIC COMMENT.
12	DR. MATTHAY: THIS IS DR. MATTHAY. DOES
13	THAT MEAN ME?
14	MS. BONNEVILLE: YES.
15	MR. SHEEHY: DR. MATTHAY.
16	MS. BONNEVILLE: IF YOU HAVE COMMENTS,
17	PLEASE.
18	DR. MATTHAY: ALL RIGHT. SO THANK YOU
19	VERY MUCH FOR CONSIDERING THIS PROPOSAL. I WON'T
20	BELABOR, BECAUSE IT'S ALREADY BEEN DISCUSSED, SOME
21	OF THE RESPONSES TO THE REVIEW. I'M SORRY THAT IT
22	WAS NOT CLEAR IN THE WAY WE EXPLAINED THE
23	APPLICATION THAT THIS REALLY IS A 120-PATIENT TRIAL.
24	AND SO IT'S BASED STATISTICALLY ON THE 120 PATIENTS,
25	NOT THE PROPOSED 20 ADDITIONAL PATIENTS. AND IT IS

1	DOUBLE BLIND, RANDOMIZED PLACEBO CONTROLLED.
2	AND IN TERMS OF THE COVID-19 ISSUE, I
3	WOULD LIKE TO REASSURE THE REVIEW BOARD THAT WE ARE
4	DOING EVERYTHING TO ENROLL THESE PATIENTS. IN FACT,
5	I THINK I POINTED OUT IN THE RESPONSES THAT WE HAVE
6	ENROLLED IN SAN FRANCISCO AT UCSF AND ZUCKERBERG 11
7	OF 13 PATIENTS WITH ACUTE RESPIRATORY DISTRESS
8	SYNDROME WHO ARE COVID POSITIVE. AND SINCE I
9	SUBMITTED THAT YESTERDAY, WE ENROLLED ANOTHER
10	PATIENT JUST YESTERDAY AFTERNOON. SO IT'S 12 OF 14.
11	SO WE ARE REALLY DOING WELL ON THE
12	COVID-19 POSITIVE ARDS PATIENTS. I THINK I CAN
13	ASSURE CIRM THAT THAT WILL CONTINUE AND THAT IS A
14	MAJOR SUPPORTED PART OF OUR PROGRAM.
15	AND I THINK I WON'T GO THROUGH THE OTHER
16	RESPONSES. I THINK IN INTEREST OF TIME, I WILL ALSO
17	EMPHASIZE THAT WE HAVE A STRONG TRACK RECORD OF
18	ENROLLING IN PRIOR TRIALS IN BOTH CALIFORNIA AND
19	NATIONAL TRIALS. I INDICATED THAT IN THE RESPONSE
20	NO. 8. AND I DO THINK ACTUALLY THAT IT IS HEALTHY
21	FOR US TO INTEGRATE WITH ACADEMIC AND INDUSTRY FOR
22	THESE TRIALS. AND I HAVE BEEN SUPPORTIVE OF, FOR
23	EXAMPLE, OTHER EFFORTS IN THE PRIVATE DOMAIN SUCH AS
24	ATHERSYS, THE MULTISTEM THERAPY IN CLEVELAND, OHIO.
25	THEY'RE TRYING TO START A TRIAL, AND I THINK THAT'S

1	VERY GOOD. WE NEED MORE THAN ONE EFFORT IN THIS
2	AREA.
3	AND SO I THINK THAT'S PART OF CIRM'S
4	MISSION; AND ALTHOUGH I'M ACADEMICALLY ORIENTED AND
5	I HAVE NO FINANCIAL CONNECTION TO ATHERSYS, I STILL
6	ENCOURAGE EFFORTS IN BOTH AREAS. THAT DOES CONFORM
7	WITH WHAT DR. FRANCIS COLLINS HAS RECOMMENDED FROM
8	THE NIH.
9	AND I WOULD LIKE TO EMPHASIZE TWO OTHER
10	POINTS. WE ARE REALLY FOCUSED ON UNDERSERVED
11	POPULATIONS, WHICH WAS THE THEME OF OTHER ALPHA STEM
12	CELL APPLICATIONS AND FUNDING FROM CIRM AT UCSF, AND
13	WE FULFILLED THAT COMMITMENT BY ENROLLING THE VAST
14	MAJORITY, FOR EXAMPLE, OF OUR COVID-19 PATIENTS WITH
15	ARDS IN SAN FRANCISCO GENERAL HOSPITAL. AND
16	UNIVERSITY OF CALIFORNIA DAVIS WOULD INCREASE THE
17	OPPORTUNITY TO SERVE AND ENROLL PATIENTS WITH AN
18	UNDERSERVED BACKGROUND.
19	AND I LAID OUT THE STRENGTH OF THE
20	APPLICATION, I THINK, IN TERMS OF THE INVESTIGATORS
21	AT UC DAVIS WITH WHOM I'VE WORKED FOR MANY YEARS AND
22	HAVE A PARTICULARLY TALENTED YOUNG ASSOCIATE
23	PROFESSOR, DR. CALLCUT, WHO WAS WITH US AT UCSF AND
24	MOVED TO A MAJOR POSITION AT UC DAVIS IN MARCH. SO
25	I THINK WE HAVE ALL THAT WOULD BE NEEDED TO DO THIS

1	VERY WELL, AND THERE'S STRONG SUPPORT FROM THE
2	DEPARTMENT OF DEFENSE AND THE NIH.
3	SO WHY DON'T I STOP THERE SO I DON'T TAKE
4	TOO MUCH OF YOUR TIME. BUT IF THERE ARE ANY
5	QUESTIONS, I'D BE HAPPY TO TAKE THEM.
6	MR. SHEEHY: THANK YOU, DR. MATTHAY. I
7	THINK WE HAVE ANOTHER PUBLIC COMMENT, RIGHT?
8	MS. BONNEVILLE: YES. IT'S FROM PHONE NO.
9	(626) 340-5600.
10	DR. SHI: SO IS THAT ME? HELLO.
11	MS. BONNEVILLE: YOU HAVE PUBLIC COMMENT
12	ABOUT THIS PARTICULAR AWARD OR APPLICATION?
13	DR. SHI: I HAVE COUPLE COMMENTS FOR
14	COVID-19 11813.
15	MR. SHEEHY: GREAT. GREAT. IF YOU DON'T
16	MIND, COULD YOU STATE YOUR NAME FOR THE PERSON
17	TAKING
18	DR. SHI: MAY I START?
19	MR. SHEEHY: PLEASE.
20	DR. SHI: HELLO, CHAIRMAN THOMAS AND THE
21	MEMBERS OF THE BOARD. I'M YANHONG SHI, A PROFESSOR
22	FROM CITY OF HOPE. I'M HERE TO ASK YOU TO CONSIDER
23	FUNDING MY APPLICATION DUE TO COVID-19, 11813,
24	"COMBATING COVID-19 USING HUMAN PSC-DERIVED NK
25	CELLS." THIS PROPOSAL RECEIVED A SCORE OF 78, ONLY
	25
	LJ

1	A FEW POINTS BELOW THE FUNDING LINE. BECAUSE
2	MULTIPLE REVIEWERS FEEL THAT THIS PROPOSAL COULD
3	YIELD SIGNIFICANT IMPACT ON THE FIELD, I ASK THAT
4	YOU CONSIDER FUNDING THIS STUDY.
5	TODAY THERE ARE NO APPROVED PROPHYLACTIC
6	OR THERAPEUTIC OPTIONS FOR COVID-19. AND MORE
7	IMPORTANTLY, IT IS LIKELY THAT COVID-19 WILL BE WITH
8	US FOR THE FORESEEABLE FUTURE. EVEN WITH A FUTURE
9	VACCINE, PATIENTS WHO ARE SEVERELY AFFECTED BY THIS
10	DISEASE WILL CONTINUE TO APPEAR. THUS, HAVING
11	TREATMENT OPTIONS AVAILABLE COULD BE LIFESAVING.
12	NK CELLS PLAY AN IMPORTANT ROLE IN
13	REGULATING A DEFENSE AGAINST THE VIRALLY INFECTED
14	CELLS AND THE TUMOR CELLS. DEPLETION AND EXHAUSTION
15	OF NK CELLS HAS BEEN SHOWN TO CAUSE DISEASE
16	PROGRESSION AND A POOR CLINICAL OUTCOME ASSOCIATED
17	WITH VIRAL INFECTION AND CANCER. IN THIS REGARD,
18	IMMENSE ADVANCEMENT HAS BEEN MADE IN CELL-BASED
19	IMMUNOTHERAPY TO ENHANCE PATIENT'S IMMUNE SYSTEMS
20	THROUGH ADOPTIVE TRANSFER.
21	WE PROPOSE TO USE GENETICALLY ENGINEERED
22	PLURIPOTENT STEM CELLS TO MAKE AN UNLIMITED SUPPLY
23	OF NK CELLS WITH ENHANCED KILLING EFFECT TO TREAT
24	COVID-19. THESE NK CELLS COULD EFFECTIVELY KILL
25	VIRALLY INFECTED CELLS AND RESIST VIRUS-INDUCED

1	EXHAUSTION.
2	THE REVIEWERS ACKNOWLEDGED THAT THIS
3	PROJECT IS STRAIGHTFORWARD AND STREAMLINED. IF
4	SUCCESSFUL COULD BE MOVED INTO PATIENTS QUICKLY.
5	ONE POTENTIAL CONCERN WAS THAT AN NK
6	TREATMENT COULD HAVE TOXIC SIDE EFFECTS, BUT TO DATE
7	NK THERAPY FOR CANCER HAS HAD MINIMAL TOXICITY. AN
8	ADDED ADVANTAGE OF NK-BASED IMMUNOTHERAPY IS THAT NK
9	CELLS DON'T HAVE THE SIDE EFFECTS OFTEN ASSOCIATED
10	WITH IMMUNOTHERAPY SUCH AS CYTOKINE STORM. MULTIPLE
11	CLINICAL TRIALS HAVE DEMONSTRATED THAT NK CELLS ARE
12	SAFE. THE HUMAN PLURIPOTENT STEM CELL APPROACH
13	PROPOSED IN THIS STUDY WILL ALLOW US TO GENERATE NK
14	CELL THERAPY FOR COVID-19.
15	NUMEROUS COVID-19 PATIENTS DESPERATELY
16	NEED TREATMENT. WE HOPE THAT THROUGH OUR RESEARCH
17	THESE PATIENTS CAN BE SAVED TO LEAD A NORMAL AND
18	FULFILLING LIFE. THANK YOU FOR YOUR ATTENTION. ON
19	BEHALF OF COVID-19 PATIENTS AND THEIR FAMILIES, I'M
20	HOPING YOU WILL APPROVE OUR PROPOSAL FOR FUNDING.
21	THANK YOU.
22	MR. SHEEHY: THANK YOU. SENATOR TORRES, I
23	SEE THAT YOU HAVE YOUR HAND UP.
24	MR. TORRES: SO THIS IS NOT ON THE MOTION,
25	WHICH I SUPPORT, THAT'S BEFORE US, BUT ON ANOTHER

1	APPLICATION WHICH I SAT THROUGH AS WELL WHERE THE
2	SCORE
3	MR. SHEEHY: SO, SENATOR TORRES, CAN WE
4	WAIT AND GET THROUGH PUBLIC COMMENT?
5	MR. TORRES: OH, OKAY. SURE. I THOUGHT
6	WE WERE DONE.
7	MR. SHEEHY: NO. NO. NOT QUITE. THANK
8	YOU.
9	I HAVE ANOTHER PUBLIC COMMENT FROM
10	(925) 818-8797. AND COULD I REQUEST THAT YOU SPEAK
11	SPECIFICALLY TO THE MOTION THAT WE HAVE BEFORE US,
12	WHICH IS ON THE APPLICATION I CAN'T SEE THE
13	NUMBERS BECAUSE OF THE WAY THIS SHOWS UP ON MY
14	SCREEN.
15	MS. BONNEVILLE: 11823.
16	MR. SHEEHY: RIGHT. SO IF YOU
17	HAVE A COMMENT ON A DIFFERENT APPLICATION, CAN I
18	PLEASE ASK THAT YOU WOULD HOLD FOR THAT?
19	DR. LI: YES. I HAVE A COMMENT ON OTHER
20	APPLICATION, NOT THIS ONE. I CAN WAIT.
21	MR. SHEEHY: LET US GO FORWARD WITH THIS
22	ONE. SO IS THERE ANY OTHER PUBLIC COMMENT ON THIS
23	APPLICATION? GREAT. COULD WE THEN CALL THE ROLL ON
24	THE MOTION TO MOVE THIS INTO THE FUNDABLE RANGE
25	PLEASE?

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1		MS. BONNEVILLE: YES. ANNE-MARIE DULIEGE.
2		DR. DULIEGE: YES.
3		MS. BONNEVILLE: YSABEL DURON. DAVID
4	HIGGINS.	
5		DR. HIGGINS: YES.
6		MS. BONNEVILLE: STEVE JUELSGAARD.
7		MR. JUELSGAARD: YES.
8		MS. BONNEVILLE: DAVE MARTIN.
9		DR. MARTIN: YES.
10		MS. BONNEVILLE: LAUREN MILLER.
11		MS. MILLER: YES.
12		MS. BONNEVILLE: ADRIANA PADILLA.
13		DR. PADILLA: YES.
14		MS. BONNEVILLE: JOE PANETTA.
15		MR. PANETTA: YES.
16		MS. BONNEVILLE: FRANCISCO PRIETO.
17		DR. PRIETO: AYE.
18		MS. BONNEVILLE: ROBERT QUINT.
19		DR. QUINT: YES.
20		MS. BONNEVILLE: AL ROWLETT.
21		MR. ROWLETT: YES.
22		MS. BONNEVILLE: JEFF SHEEHY.
23		MR. SHEEHY: YES.
24		MS. BONNEVILLE: OS STEWARD. OS, YOU'RE
25	ON MUTE.	AFTER ALL THAT. THANK YOU.
		20
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	<b>,</b>
1	MR. TORRES: YOU SAW HIS THUMB?
2	MS. BONNEVILLE: UH-HUH. JONATHAN THOMAS.
3	CHAIRMAN THOMAS: YES.
4	MS. BONNEVILLE: ART TORRES.
5	MR. TORRES: AYE.
6	MS. BONNEVILLE: DIANE WINOKUR.
7	MS. WINOKUR: YES.
8	MS. BONNEVILLE: THANK YOU. THE MOTION
9	CARRIES.
10	MR. SHEEHY: GREAT. SO, SENATOR TORRES, I
11	THINK YOU WANTED TO MAKE A MOTION ABOUT ANOTHER
12	APPLICATION OR A COMMENT ON ANOTHER APPLICATION?
13	MR. TORRES: YES. I JUST WANTED TO ASK
14	GILBERT REGARDING THE APPLICATION BY DR. SONG FROM
15	CELULARITY, 11857. THE REVIEWERS DURING THE
16	EXAMINATION, WE ALL GAVE IT PRETTY HIGH MARKS, IN
17	THE HIGH 80S AND TWO 80S. I WAS WONDERING WHAT WERE
18	THE OTHER SCORES BECAUSE I CAN'T GET THAT ON MY
19	SCREEN BECAUSE THE TEXT IS TOO BIG FOR TRANSMISSION?
20	DR. SAMBRANO: SURE. SO THIS IS
21	APPLICATION 11857. AND SO THIS WAS A PHASE 1/2 OF
22	HUMAN PLACENTAL HEMATOPOIETIC STEM CELL-DERIVED
23	NATURAL KILLER CELLS FOR TREATMENT OF ADULTS WITH
24	COVID-19. SO THIS HAD A MEDIAN SCORE OF 84. SO
25	IT'S JUST ONE POINT BELOW THE FUNDING LINE. THERE
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	1

1	WERE FIVE MEMBERS THAT SCORED BASICALLY 85 BECAUSE
2	THAT WAS THE HIGHEST SCORE GIVEN, AND THEN THERE
3	WERE NINE MEMBERS THAT SCORED BELOW THAT. AND THAT
4	WOULD BE BETWEEN 70 AND 84.
5	MR. TORRES: AND CAN YOU TELL US WHAT THE
6	APPLICATION DID?
7	DR. SAMBRANO: SURE. SO THIS IS A
8	PROPOSAL FOR TAKING HUMAN PLACENTAL-DERIVED
9	HEMATOPOIETIC STEM CELLS THAT ARE CULTURED INTO
10	NATURAL KILLER CELLS. AND SO THIS IS A PROPOSAL TO
11	DO A CLINICAL TRIAL TO STUDY THEIR IMPACT ON
12	COVID-19 PATIENTS. SO THE NK CELL POPULATION IS
13	ALLOGENEIC AND EXPANDED IN CULTURE IN ORDER TO HAVE
14	SUFFICIENT CELLS TO TREAT PATIENTS.
15	I THINK THE CONCERNS RELATED TO THIS
16	APPLICATION WERE, I THINK, THE UNKNOWNS ABOUT
17	NATURAL KILLER CELLS AS A THERAPEUTIC AND THE
18	POTENTIAL RELEVANCE FOR COVID-19. THERE IS SOME
19	DATA THAT SUGGEST THAT CELLS SUCH AS NATURAL KILLER
20	CELLS AND T-CELLS BECOME EXHAUSTED BECAUSE OF
21	CHRONIC STIMULATION IN COVID-19 PATIENTS. AND SO
22	THAT IS THE REASON FOR TRYING TO PURSUE THIS AND
23	OTHER SIMILAR STUDIES, BUT IT IS UNKNOWN WHAT THE
24	EFFECT OF THE NATURAL KILLER CELLS IN A COVID-19
25	PATIENT ENVIRONMENT WOULD BE.

1	I THINK SOME OF THE FEARS FROM WORKING
2	GROUP MEMBERS IS THAT IT COULD POTENTIALLY
3	EXACERBATE THE CONDITION, BUT IT IS AN UNKNOWN. SO
4	IT IS JUST A RISK.
5	MR. TORRES: WELL, EVERYTHING IS AN
6	UNKNOWN RIGHT NOW IN THIS ENVIRONMENT. AND I THINK
7	THAT I DON'T KNOW WHETHER WE SHOULD TAKE A RISK IN
8	SEEING WHETHER THIS PROCESS WORKS OR NOT. THAT WAS
9	THE ONLY ISSUE THAT I HAD RAISED BECAUSE I WAS
10	INTRIGUED BY THE REVIEWERS AND WHAT THEY WERE
11	HINTING AT, BUT ALSO A CONCERN ABOUT THE
12	EXACERBATION THAT MANY OF THEM SAID AS WELL. SO I'M
13	REAL I'M ON THE FENCE. I THINK I'M JUST NOT
14	GOING TO MAKE A MOTION AND JUST LEAVE IT AT THAT
15	UNLESS THERE ARE OTHER MEMBERS OF THE BOARD THAT
16	WANT TO OPINE ON THIS ISSUE.
17	MR. SHEEHY: OTHER COMMENTS, QUESTIONS
18	FROM BOARD MEMBERS ON THIS? OKAY. IS THERE
19	ANY IS THERE A MOTION TO MOVE ANY OTHER
20	APPLICATIONS FROM TIER II INTO TIER I?
21	THEN IS THERE A MOTION TO MOVE ANY
22	APPLICATION FROM TIER I INTO TIER II?
23	THEN COULD I GET A MOTION TO APPROVE ALL
24	THE APPLICATIONS IN TIER I, INCLUDING 11823, WHICH
25	WE HAVE MOVED INTO TIER I?

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1	MR. TORRES: SO MOVED.
2	MR. SHEEHY: SO MOVED BY SENATOR TORRES.
3	SECOND?
4	DR. DULIEGE: I SECOND.
5	MR. SHEEHY: BY DR. DULIEGE.
6	IS THERE ARE THERE ANY COMMENTS ANY
7	BOARD COMMENTS AND QUESTIONS ON THIS? ANY PUBLIC
8	COMMENT? I THINK 925, I THINK THIS IS PROBABLY AS
9	GOOD A PLACE AS ANY TO CHIME IN IF YOU'D LIKE TO
10	MAKE YOUR COMMENTS.
11	DR. LI: OKAY. CAN YOU HEAR ME?
12	MR. SHEEHY: YES.
13	DR. LI: OKAY, GREAT. THANK YOU VERY
14	MUCH. THIS IS DR. SONG LI CALLING FROM UCLA
15	BIOENGINEERING. SO WE REALLY APPRECIATE THIS
16	OPPORTUNITY TO RESPOND TO THE REVIEW. THIS IS
17	REGARDING THE APPLICATION DISCOVERY GRANT 11838 WITH
18	A SCORE OF 82. IT'S VERY CLOSE TO THE CUTOFF LINE.
19	WE APPRECIATE THE APPLICATION REVIEW
20	COMMITTEE'S COMMENTS. AND BASICALLY WE HAVE
21	UNANIMOUS SUPPORT FOR THE SIGNIFICANCE AND IMPACT OF
22	THIS PROJECT FROM THE COMMITTEE AND IN THE COMMENTS
23	ON THE UNIQUENESS AND ALSO THE PROMISING AND NOVEL
24	APPROACH FOR HIGH RISK, HIGH REWARD PROJECT. SO
25	THAT'S THE COMMENT.

1	THE MAJOR CONCERN FOR THIS COMMENT WAS THE
2	FEASIBILITY OF THE PRODUCT AND THE COMPLEXITY OF
3	THIS DRUG (UNINTELLIGIBLE). SO THIS PROPOSAL, WHILE
4	TRYING TO ADDRESS A MAJOR ISSUE FOR THIS COVID-19
5	PANDEMIC, WE KNOW THAT ELDERLY POPULATION IS HIGHLY
6	SUSCEPTIBLE AND VULNERABLE TO INFECTION AND THERE'S
7	A HIGH DEATH RATE. SO THAT'S WELL-KNOWN.
8	THERE'S NO SOLUTION TO THIS PROBLEM. AND
9	FOR THESE OLD PEOPLE, AND WE KNOW FOR ALL THE
10	PREVIOUS INFECTIOUS DISEASE STUDIES, PEOPLE KNOW
11	THAT EVEN VACCINE MAY BE MUCH LESS EFFECTIVE
12	(UNINTELLIGIBLE) OTHER VIRUS VACCINES.
13	SO WHAT I'M TRYING TO PROPOSE IS TO BOOST
14	THE T-MEMORY STEM CELLS, WHICH IS VERY IMPORTANT FOR
15	THE LONG-TERM MEMORY OF THE IMMUNITY WHICH IS
16	MISSING IN THE ELDERLY POPULATION.
17	SO WE HAVE A DRUG DELIVERY SYSTEM
18	PROPOSED. SO REGARDING THE FEASIBILITY, I WOULD SAY
19	IT'S NOT AS COMPLEX AS PEOPLE THOUGHT. WE HAVE
20	THREE MAJOR COMPONENTS. AND ALL OF THESE COMPONENTS
21	ACTUALLY HELPING AND USED IN OTHER CLINICAL TRIAL
22	APPROVED AS PRODUCTS BY FDA. SO THESE THREE
23	COMPONENTS, ONE IS THE SCAFFOLD MATERIAL, WHICH IS
24	ALGINATE, IN A FEW THOUSANDS CLINICAL TRIAL OF
25	PRODUCT APPROVED ALREADY. AND THE SECOND COMPONENT

1	IS THIS ARTIFICIAL ANTIGEN PRESENT IN CELLS. AND
2	THERE ARE AT LEAST SIX CLINICAL TRIAL INCLUDING ONE
3	FOR T-CELL EXPANSION WITH ANTIBODY PRESENTATION AND
4	EXPANDED T-CELLS AND USE THAT TO KILL CANCER. SO
5	THAT'S IN CLINICAL TRIAL. SEVERAL OF THESE
6	EXAMPLES. AND THE THIRD COMPONENT IS CYTOKINES.
7	AND THESE CYTOKINES ACTUALLY ARE PROVIDED BY NIH FOR
8	PRECLINICAL TRIAL WITH LARGE QUANTITY IN RESEARCH,
9	GOOD QUALITY.
10	SO ALL OF THIS THREE COMPONENTS ALREADY
11	HAVE A CLEAR PATHWAY FOR NIH APPROVAL. SO WE DON'T
12	THINK IT'S A BIG ISSUE.
13	IN ADDITION, AS PART OF PROPOSED STUDIES,
14	WE ARE GOING TO DO A STUDY TO EVALUATE THE EFFECTS
15	OF EACH OF THESE COMPONENTS AND TRYING TO SIMPLIFY
16	IT AND SEE WHICH IS NECESSARY AND SUFFICIENT TO
17	INDUCE THE T-MEMORY STEM CELLS IN ELDERLY.
18	SO I THINK THIS IS FEASIBLE AND OUR TEAM
19	REALLY INCLUDES INTERDISCIPLINARY EXPERTISE ON STEM
20	CELL ENGINEERING, BIOMATERIALS, DRUG DELIVERY, AND
21	VIROLOGY. AND WE HAVE ALL THESE MATERIALS READY.
22	WE HAVE TESTED IT IN T-CELLS, ACTIVATION AND
23	REGULATION WITH DRUG DELIVERY PLATFORM. SO WE THINK
24	WE CAN MOVE QUICKLY WITH WHAT WE PROPOSE TO DO
25	(UNINTELLIGIBLE) ON FEASIBILITY.

1	I WILL STOP HERE AND BE HAPPY TO ANSWER
2	ANY QUESTIONS.
3	MR. SHEEHY: THANK YOU, DR. LI.
4	DO WE HAVE ANY MORE PUBLIC COMMENT ON THE
5	MOTION BEFORE US?
6	MS. BONNEVILLE: JEFF, I BELIEVE DR. SONG
7	HAS A COMMENT. HE MIGHT BE ON MUTE RIGHT NOW. SO
8	I'M LOOKING. I'M SCANNING. I DON'T SEE A HAND
9	RAISED, SO I'M NOT SURE. JUST ONE SECOND. OKAY.
10	DR. CASPER APPARENTLY IS WHO WILL BE SPEAKING, AND I
11	DON'T KNOW, WE NEED A PHONE NUMBER FROM WHICH THEY
12	ARE SPEAKING IN ORDER TO GIVE THEM THE ABILITY TO
13	GIVE A PUBLIC COMMENT.
14	MR. SHEEHY: OKAY.
15	MR. GUILLEN: DIAL STAR NINE AND YOU WILL
16	RAISE YOUR HAND IF YOU WANT TO MAKE PUBLIC COMMENT.
17	PLEASE DIAL STAR NINE ON YOUR TELEPHONE.
18	MS. BONNEVILLE: SO WE HAVE TWO. WE HAVE
19	(206) 381-0883.
20	DR. CASPER: YEAH, HI. THAT'S ME. THIS
21	IS DR. CASPER. CAN YOU HEAR ME?
22	MS. BONNEVILLE: YES.
23	DR. CASPER: THANK YOU VERY MUCH FOR
24	GIVING ME THE OPPORTUNITY TO SPEAK. THIS IS DR.
25	CORY CASPER. I'M THE CHIEF EXECUTIVE OFFICER OF THE

1	INFECTIOUS DISEASE RESEARCH INSTITUTE AND A
2	PROFESSOR OF MEDICINE AND INFECTIOUS DISEASE AT THE
3	UNIVERSITY OF WASHINGTON. I'M SPEAKING, I GUESS, ON
4	BEHALF OF APPLICATION 857, WHICH IS THE CELULARITY
5	TRIAL THAT WAS JUST DISCUSSED.
6	THIS STUDY RECEIVED WHAT I THOUGHT WERE
7	VERY FAVORABLE REVIEWS. SO THANK YOU VERY MUCH FOR
8	YOUR CAREFUL CONSIDERATION.
9	AS WAS NOTED, THEY WERE GENERALLY
10	FAVORABLE AND THERE WERE SOME CONCERNS ABOUT
11	POTENTIAL SAFETY ISSUES OF THE NK CELL INFUSION IN
12	PATIENTS WITH COVID-19. SO ULTIMATELY YOU'RE RIGHT.
13	IT'S IMPOSSIBLE TO KNOW WHETHER THESE CELLS WILL BE
14	SAFE IN THIS CLINICAL CONDITION. IT'S OBVIOUSLY A
15	NOVEL VIRUS AND THE NOVEL CLINICAL CONSTELLATION OF
16	SYMPTOMS THAT WE ARE STILL LEARNING ABOUT. BUT I DO
17	THINK THAT IT IS IMPORTANT TO TAKE A CHANCE AND TO
18	DO THIS INVESTIGATION. I THINK THERE ARE
19	APPROPRIATE SAFEGUARDS THAT HAVE BEEN BUILT INTO THE
20	STUDY IN A VERY CAREFUL STUDY DESIGN, AND I CAN
21	OUTLINE THOSE IN A MOMENT.
22	AND ALSO I THINK THAT, ALTHOUGH YOU CAN'T
23	HAVE ANY PRELIMINARY DATA FOR THIS VIRUS, GIVEN THAT
24	IT'S SO NEW, THE FACT THAT THIS PRODUCT HAS BEEN
25	USED IN PHASE 1 STUDIES FOR CANCER IN 25 INDIVIDUALS

1	WITH NO SIGNIFICANT SAFETY SIGNAL, I THINK, IS VERY
2	IMPORTANT.
3	WITH RESPECT TO THE CLINICAL TRIAL DESIGN,
4	THE INCLUSION CRITERIA FOR THE ELIGIBILITY OF
5	PATIENTS IN THE TRIAL IS SUCH THAT PATIENTS ONLY
6	WITH MODERATE DISEASE ARE ALLOWED TO ENTER. SO IT
7	SAFEGUARDS AGAINST ENROLLING PATIENTS WHO ALREADY
8	HAVE LUNG INJURY. AND THERE ARE ADDITIONAL
9	SAFEGUARDS THAT ARE PROVIDED.
10	SO ONE SAFEGUARD IS THAT THERE'S A REDUCED
11	DOSE OF THE CELLS THAT ARE PROVIDED AT THE FIRST
12	INFUSION WITH CLOSE OBSERVATION BEFORE THE FULL DOSE
13	IS PROVIDED IN THE SECOND AND THIRD INFUSION.
14	THERE'S CAREFUL MONITORING, AND IT'S MANDATED THAT
15	THE DRUG WHICH IS CURRENTLY USED IN MY INSTITUTION
16	AND OTHERS FOR DEFENDING AGAINST THIS CYTOKINE
17	RELEASE SYNDROME, THESE ARE IL6 RECEPTOR BLOCKERS,
18	ARE AVAILABLE FOR RESCUE SHOULD PATIENTS BEGIN TO
19	DEVELOP ANY OF THESE CLINICAL CONDITIONS.
20	THERE'S A VERY CAREFUL PHASE 1 AND PHASE 2
21	DESIGN. THE FIRST THREE PATIENTS THAT ARE ENROLLED
22	WILL BE EVALUATED RIGOROUSLY BY DATA SAFETY
23	MONITORING BOARD; AND THEN AFTER 11 ADDITIONAL
24	PATIENTS ARE ENROLLED, THEY WILL ALSO BE REVIEWED BY
25	THE DATA SAFETY COMMITTEE. SO I THINK THAT THERE
	20

1	ARE AMPLE OPPORTUNITIES TO SURVEY, PREVENT, AND
2	ANALYZE ANY ADVERSE EVENTS THAT COME FROM THIS
3	TRIAL.
4	SO IN SUM, I THINK THAT WE HAVE A PRODUCT
5	THAT I THINK IS HAS A BIOLOGIC PLAUSIBILITY FOR
6	BEING VERY IMPORTANT AND VERY UNIQUE IN ITS
7	TREATMENT FOR COVID DISEASE. I THINK THAT WE HAVE
8	ADEQUATE SAFEGUARDS THAT HAVE BEEN PUT INTO THE
9	TRIAL TO REALLY ASSURE THE SAFETY OF THE
10	PARTICIPANTS. AND, AGAIN, WE APPRECIATE THE
11	ENTHUSIASM THAT WAS VOICED BY THE REVIEWERS.
12	MR. SHEEHY: THANK YOU. ADDITIONAL PUBLIC
13	COMMENT?
14	MS. BONNEVILLE: WE HAVE TWO HANDS RAISED.
15	I BELIEVE I THINK IT'S SONG LI HAS THE HAND
16	RAISED.
17	MR. SHEEHY: PUBLIC COMMENT?
18	DR. LI: CAN I MAKE A QUICK COMMENT?
19	MR. SHEEHY: QUICK. I MEAN GENERALLY WE
20	ONLY ONE YOU GET ONE SHOT KIND OF IN PUBLIC
21	COMMENT, BUT GO AHEAD.
22	DR. LI: TEN SECONDS. I JUST WANTED TO
23	ADD THAT INDEED THE REVIEW COMMITTEE POINTED OUT
24	THIS DISCOVERY STAGE PROJECT. IT'S A CHALLENGE, BUT
25	IT'S WORTH THE RISK FOR SMALL INVESTMENT. INDEED,

1 THE IMPACT IS HUGE, I THINK, TO TRACK THE ELDERLY	
2 POPULATION'S VULNERABILITY TO THE DISEASE. I HOPE	
THE BOARD CAN SEE THIS FAVORABLE AND MOVE THIS TO	
4 CATEGORY ONE.	
5 MR. SHEEHY: THANK YOU. NO MORE PUBLIC	
6 COMMENT?	
7 MS. BONNEVILLE: I DON'T SEE ANY.	
8 MR. SHEEHY: OKAY. SO COULD WE CALL THE	
9 ROLL ON THIS MOTION TO FUND THE APPLICATIONS IN TIE	R
10 I INCLUDING THE ONE WE ADDED, 11823?	
11 MS. BONNEVILLE: YES.	
12 ANNE-MARIE DULIEGE.	
DR. DULIEGE: NO FOR ME.	
14 MS. BONNEVILLE: DAVID HIGGINS.	
DR. HIGGINS: YES.	
MS. BONNEVILLE: STEVE JUELSGAARD.	
17 MR. JUELSGAARD: YES.	
18 MS. BONNEVILLE: DAVE MARTIN.	
DR. MARTIN: YES.	
MS. BONNEVILLE: LAUREN MILLER.	
MS. MILLER: YES.	
MS. BONNEVILLE: JOE PANETTA.	
MR. PANETTA: YES.	
MS. BONNEVILLE: FRANCISCO PRIETO.	
DR. PRIETO: AYE.	
40	

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İ	,
1	MS. BONNEVILLE: ROBERT QUINT.
2	DR. QUINT: YES.
3	MS. BONNEVILLE: AL ROWLETT.
4	MR. ROWLETT: YES.
5	MS. BONNEVILLE: JEFF SHEEHY.
6	MR. SHEEHY: YES.
7	MS. BONNEVILLE: OS STEWARD.
8	DR. STEWARD: YES.
9	MS. BONNEVILLE: WE HEARD YOU.
10	JONATHAN THOMAS. J.T.?
11	CHAIRMAN THOMAS: YES.
12	MS. BONNEVILLE: ART TORRES.
13	MR. TORRES: AYE, ALL THREE.
14	MS. BONNEVILLE: DIANE WINOKUR.
15	MS. WINOKUR: YES.
16	MS. BONNEVILLE: THANK YOU. THE MOTION
17	CARRIES.
18	MR. SHEEHY: THANK YOU.
19	NOW WHAT WE WOULD NEED IS A MOTION TO NOT
20	FUND THE REMAINING APPLICATIONS.
21	DR. DULIEGE: I MAKE THIS MOTION.
22	MR. SHEEHY: MADE BY DR. DULIEGE. IS
23	THERE A SECOND?
24	DR. STEWARD: SECOND.
25	MR. SHEEHY: SECONDED BY DR. STEWARD. ANY
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	, <b>,</b>
1	BOARD COMMENT OR DISCUSSION?
2	MR. TORRES: YES, MR. CHAIRMAN, IT'S
3	TORRES AGAIN.
4	MR. SHEEHY: SURE.
5	MR. TORRES: A QUESTION OF GILBERT. IF WE
6	CHOOSE TO REJECT ALL THE REMAINING APPLICATIONS, DO
7	ANY OF THEM HAVE AN OPPORTUNITY TO MODIFY OR REFORM
8	THEIR PROPOSAL IN TIME FOR ANOTHER ROUND THAT WE
9	MIGHT HAVE IN THE VERY NEAR FUTURE?
10	DR. SAMBRANO: SO THE NEXT APPLICATION
11	DEADLINE IS THIS COMING TUESDAY. SO ALL APPLICANTS
12	HAVE AN OPPORTUNITY TO REVISE AND RESUBMIT.
13	MR. TORRES: EVEN IF THEY WERE REJECTED
14	TODAY, THEY CAN REVISE AND RESUBMIT?
15	DR. SAMBRANO: YES, ABSOLUTELY.
16	MR. TORRES: ALL RIGHT. THANK YOU, MR.
17	CHAIRMAN.
18	MR. SHEEHY: OKAY. THANK YOU, SENATOR
19	TORRES. ANY OTHER BOARD COMMENTS OR QUESTIONS? DO
20	WE HAVE ANY PUBLIC COMMENT ON THIS MOTION? IF NOT,
21	COULD WE CALL THE ROLL PLEASE, MS. BONNEVILLE.
22	MS. BONNEVILLE: ANNE-MARIE DULIEGE.
23	DR. DULIEGE: YES.
24	MS. BONNEVILLE: DAVID HIGGINS.
25	DR. HIGGINS: YES.
	42
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MS. BONNEVILLE: STEVE JUELSGAARD.  MR. JUELSGAARD: YES.  MS. BONNEVILLE: DAVE MARTIN.  DR. MARTIN: YES.  MS. BONNEVILLE: LAUREN MILLER.  MS. MILLER: YES.  MS. BONNEVILLE: JOE PANETTA.  MR. PANETTA: YEP.  MS. BONNEVILLE: FRANCISCO PRIETO.  DR. PRIETO: AYE.  MS. BONNEVILLE: ROBERT QUINT.  DR. QUINT: YES.
MS. BONNEVILLE: DAVE MARTIN.  DR. MARTIN: YES.  MS. BONNEVILLE: LAUREN MILLER.  MS. MILLER: YES.  MS. BONNEVILLE: JOE PANETTA.  MR. PANETTA: YEP.  MS. BONNEVILLE: FRANCISCO PRIETO.  DR. PRIETO: AYE.  MS. BONNEVILLE: ROBERT QUINT.
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6 MS. MILLER: YES. 7 MS. BONNEVILLE: JOE PANETTA. 8 MR. PANETTA: YEP. 9 MS. BONNEVILLE: FRANCISCO PRIETO. 10 DR. PRIETO: AYE. 11 MS. BONNEVILLE: ROBERT QUINT.
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TZ DV. GOTINI. 1F2.
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14 MR. ROWLETT: YES.
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MR. SHEEHY: YES.
MS. BONNEVILLE: OS STEWARD.
DR. STEWARD: YES.
MS. BONNEVILLE: JONATHAN THOMAS.
20 CHAIRMAN THOMAS: YES.
MS. BONNEVILLE: ART TORRES.
MR. TORRES: AYE.
MS. BONNEVILLE: DIANE WINOKUR.
MS. WINOKUR: YES.
MS. BONNEVILLE: THANK YOU. THE MOTION
43

1	CARRIES.
2	MR. SHEEHY: THANK YOU, MS. BONNEVILLE.
3	CHAIRMAN THOMAS, THIS CONCLUDES THE BUSINESS OF THE
4	APPLICATION REVIEW SUBCOMMITTEE.
5	CHAIRMAN THOMAS: THANK YOU VERY MUCH, MR.
6	SHEEHY AND ALL PARTICIPANTS.
7	WE HAVE ONE OTHER ITEM ON THE AGENDA,
8	WHICH IS PUBLIC COMMENT ON ANY TOPICS IN GENERAL.
9	DO WE HAVE ANY MEMBERS OF THE PUBLIC WHO WOULD LIKE
10	TO SAY ANYTHING AT THIS POINT? HEARING NONE, I
11	AGAIN WANT TO THANK EVERYBODY. IT'S AN ADDITIONAL
12	THREE COVID AWARDS. WE HAVE BEEN DEFINITELY DOING
13	OUR PART TO CONTRIBUTE TO THIS UNPRECEDENTED,
14	WORLDWIDE EFFORT TO FIND TREATMENTS AND THERAPIES
15	FOR THIS NOVEL DISEASE.
16	WE WILL HAVE ANOTHER MEETING OF THE GRANTS
17	WORKING GROUP IN A COUPLE WEEKS TO CONSIDER THE NEXT
18	ROUND OF APPLICATIONS, AND WE'LL RECONVENE THIS BODY
19	SHORTLY THEREAFTER. PLEASE, EVERYBODY, YOU AND YOUR
20	FAMILIES STAY SAFE. WITH THAT, WE STAND ADJOURNED.
21	(THE MEETING WAS THEN CONCLUDED AT 12:09 P.M.)
22	
23	
24	
25	

#### REPORTER'S CERTIFICATE

I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT THE FOREGOING TRANSCRIPT OF THE PROCEEDINGS VIA ZOOM BEFORE THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE AND THE APPLICATION REVIEW SUBCOMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD ON MAY 15, 2020, WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS THAT APPEAR IN THIS TRANSCRIPT WERE REPORTED STENOGRAPHICALLY BY ME AND TRANSCRIBED BY ME. I ALSO CERTIFY THAT THIS TRANSCRIPT IS A TRUE AND ACCURATE RECORD OF THE PROCEEDING.

BETH C. DRAIN, CA CSR 7152 133 HENNA COURT SANDPOINT, IDAHO (208) 255-5453